

 www.arrl.org		Saint Paul Radio Club Ground Wave <i>Dan Meyer, NØKFB, Editor</i> <i>Dale Maroushek, NØPEY, Publisher</i> http://www.stpaulradioclub.org/	KØAGF Club Repeaters: 145.310 MHz, 442.450 MHz Both use a 114.8 Hz tone PO Box 9375 North St. Paul, MN 55109
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Devoted to the future of Amateur Radio as a hobby and public necessity.

SPRC Nets: Wednesday 7:30 PM 28.310 MHz USB; 8:30 PM 145.310 MHz FM 114.8 tone

NEWS AND NOTES FOR SEPTEMBER 2025

Volume 85, Issue 7

NEXT MEETING: Friday September 5th, 2025

- 6:00 PM Board Meeting (all are welcome to attend and observe)
- 7:00 PM Membership meeting, refreshments and socializing
- 7:30 PM Membership Meeting Followed by Program

Entrance to CDH for our meeting

Meetings are held at Cretin-Derham Hall High School located at the intersection of Hamline and Randolph in St. Paul. Park in the lot off Hamline near the athletic field.

Enter door 21 at the Ryan STEM Center addition. The meeting room is down the hallway on the right (the Commons). Door 21 will lock at 7:45; if you arrive after that, please call Br. Bob at 612-201-0818 to be let in.

Program

Our meetings are hybrid meetings. That means there will be an in-person meeting at Cretin-Derham Hall (CDH) and a meeting on Zoom for those unable to attend in person. Zoom meeting information can be found on the last page of this newsletter.

The program for tonight is critical

As the Music Man once said: Oh we got Trouble, right here in River City, and it starts with T and ends in D and that stands for Tiered. I know what you are thinking, times have changed since Meredith Willson wrote that line, and I certainly agree. We have tried a few methods of recruitment with maybe a 10 per cent return. Our volunteer list is backed up, people have many jobs they do for the Club, rather than one or two people working together on one job. Therefore, they are all tired.

My personal experience is hilarious. Licensed in 1991, I was approached in the mid 90's to run for a Board Membership. I was working all Friday nights back then, so I declined and waited until the 1998 election. Tom Sturm had been President and chose not to continue. There were NO volunteers or accepted nominations. So we took a break for donuts and my good friend Marv Holmes, WØYHE, casually mentioned that I could do the job. Others heard that and I went right to the top immediately. Since then, I have been on the Board for all but about 3 years and even then I attended and helped other people run the club. Do the math and we see I have been on the job for over 25 years!

(continued on next page)

I have been shedding jobs these past years but they seem to come back to haunt me. So the program tonight is to fill volunteer positions from the membership. We must have something of interest that you could help the Club do. So come prepared to volunteer to help the club continue to offer all the wonderful things we do.

Dale's Details

by Dale Maroushek NØPEY

Hopefully you all made it home from the State Fair this week. The weather sure cooperated. I attended only by TV shows broadcasting from the fair. The food trucks find their way down to Hy Vee on the corner so I can treat myself once a month, and save that ticket fee.

As most of you know, my son sold the RV so FD was just a bit different. Hopefully we can work out a plan like that for the next years. The airport location works very well and we found that using more small gensets works better than one or two big ones. Operating costs go up some, but everything else did too. I was back in the kitchen again, but I had a trainee, Jim Borowski, K9TF work the griddle making pancakes. His training will continue at the Auction in January where he will specialize in hot dogs!

Then a trip up to Leech Lake to a nice resort after the fourth of July. We fished using the new Hummingbird fishing sonar and motor control. Still learning how it all works and someday we will have it all figured out. Leech is so large but broken up by land formations. The resort was out at the end of a peninsula in the middle of one bay, and a friend of Kirk's directed us to Boy Bay as a good crappie spot. We motored for 30 minutes at 30 MPH to get there. So almost 8 miles, and we caught nothing but little perch. Later we moved to a small lake and had some fun with Bass and Northern.

The boat trailer blew the right tire about half way there, and the left one 30 miles later. Yes, they were very worn, but he thought one more trip. Luckily we had a trail car with his kids in it, so they came over and took the tires into town for replacement. The shop was backed up so I sat and watched the cars go by while they all went into town and shopped for 2 hours. I met the nicest State Trooper. They left the spare to be picked up on our way back next Saturday.

So we pull into the tire shop and they start looking for the tire and wheel. Sure enough, it had been given to someone else, or stolen. They made arrangements to see if a new matching wheel could be found, but come Monday, a man returned with it and then got his correct tire and they shipped Kirk's down to Rogers close to his home in Dayton. The vacation woes continue every year. Oh, Kirk's new truck ran very well too. Nice new red GMC Sierra. Deb got a new blue Subaru Outback with more bells and whistles than we will ever use.

Radio wise, pretty much the Wednesday night nets and gathering all the stuff for my upcoming tower and shack upgrade. Some of the work I can do myself, although slowly. More of it will need one or two helpers, if nothing else to dial 911 when we hurt ourselves.

That's all for this month. I'll probably have more to say after this meeting on Friday.

Dale Maroushek, NØPEY President again.

AUCTION CHAIRS	DALE MAROUSHEK YOUR NAME HERE	NØPEY	651-777-5309
BOY SCOUT LIASON	DAN DIONNE	K9ALV	303-870-4119
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REPEATER & LICENSE TRUSTEE	DALE MAROUSHEK	NØPEY	651-238-5720
SOCIAL EVENT AND REFRESHMENT COORDINATOR	JAY MAHER	NJØM	612-850-0810
VHF NET CONTROLS	JOHN HESS TIM BURD	N2FGB WD9IGX	892-812-1167 651-487-2061
HF AND NETS MANAGER	DALE MAROUSHEK	NØPEY	651-238-5720
VOLUNTEER EXAMINERS TEAM LIAISON	STEVE SCOTT	WA7HPK	651-503-7441
WEBMASTER	TOM BREDEMUS	KCØINP	651-895-4347

Ramblings from the VP's Work Bench

by Kevin Welna W5LNA

Well, it had been a memorable summer.

I have been flying RC gliders, shooting and dealing with house stuff. Of the first two I have not done enough and the last item I am sick of of it. LOL.

On the HAM front, I have been practicing a bit of word recognition and I am still meeting with my friend KC3PBY every other week for practice. We have started something new. We send each other messages via voice recordings from our phone. We write up a script, then record our sending it in Morse code and then send it of as a voice message. Quick hint here: If you try this, remember to turn OFF noise canceling otherwise the phone will ignore\reject the dits and dahs as noise and you end up with 10 minutes of nothing recorded....Ask me how I know this!! Anyway, the other person is then able to listen and re-listen (if need be) to try and decipher what was sent. It works pretty good and helps improve both our sending and hearing Morse Code.

I have no new Ham Radio projects started yet, but I will have a couple once the white fungus is on the ground. I am stocked up and ready with a few Ham Radio kits I want to build this winter. Along with a couple other electronics projects. Its the only good thing about winter as far as I am concerned.

I still do not have my Hex Beam antenna. It has been either too hot or too windy to go out and get it off the roof of the seller. I am hopeful to have it in hand be for the white fungus flies but it will probably not be up and usable till next spring. (Very Frustrating!)

Speaking of building Ham Radio stuff, I did not hear from any of you on your interest in doing a meet up for building electronics projects in the winter, so I am putting that search\project on the back burner for the foreseeable future.

I have been out shooting steel a couple times in August with NØYQ. It is a good time and the club where the events are held is quite welcoming. Alas it is a bit of a drive into WI to get there. But it is worth the drive. It would be even better if I could hit the targets!! HI HI

On an up side (maybe), we have a new to us used RV. This one is a diesel pusher about 38' long. The reason for the "upgrade" is the old Swamp Monster did its thing yet again and we woke up to wet carpet outside the bathroom and the XYL let it be known that she was done with it. If I wanted to continue traveling via RV and have her join me, I needed to get something else. Not fix this one! I showed her who is really the boss by buying her a mirror and promptly going out and looking at a replacement units. After a few weeks of searching we found what we were looking for in Alexandria.

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Of course on the way home with the unit, it started to rain and when I turned on the wipers they went back and forth a couple times and then promptly slammed into each

other and became entangled! Ah yes the Welna luck when buying motor vehicles..... I am now looking for the witch doctor that I must have offended so I can apologize and have him lift the curse. (I hope). Once I get the RV back from the repair shop, I will attempt to install my ATAS 100 antenna so I can "Ham" it up while traveling. Speaking of that. I did convince the XYL that we need to try the snowbird thing and leave the Arctic Midwest for warmer climates this winter and she agreed to a 4-6 week adventure in the southern US. I can't wait!!

Kind of exciting, well for me anyway, I have been flying my gliders that I built over the last winter, plus a couple more this summer. On a number of occasions, I have been able to log flights over 10 minutes with only a 30 second motor run. This is done by riding rising currents of warmer air called thermals that pop up randomly all around the flying field. It is quite a thrill and a wonderful feeling watching the craft that you designed\built circle inside a thermal and rise up till it is almost out of sight and then bring it back down only to find another thermal and do it again and again. The fliers that actually know what they are doing will stay aloft for 30 minutes to an hour. I ain't there yet, but I am hopeful.

The F8F Bear Cat is mostly complete. It only needs to be covered and have the electronics installed (Later this fall). It should be ready for indoor flying this winter up at the Blaine Sports center. Next on the indoor plane list is to build a WACO YMF 5 biplane. More on this later this year and into next year.

The portable hobby box worked great. While camping up at Hayward for a week this summer, I was able to build a smaller rubber powered stick and tissue plane that I will try and fly once the weather cooperates. (Read that as NO WIND!)

Well, that's all I have for now. I hope your summer and whats left of it finds you well and on the air. I'm looking forward to the club meetings and seeing you all there.

Until next time:

May your signals be strong and your antennas have extra gain.

73

Kevin - W5LNA

Sorry, no pics this time. I'm sure there will be some next month.

Oh for Pete's Sake !!! by Pete Guldán kdØsqj

Summer gone??? Where did it go? Not liking it. I did raid an apple tree at one of my delivery locations, so there's that. Gotta be antenna work season any day now. Extra gain and all that jazz. So Field Day happened, seems like a few weeks ago. Official results in December QST as usual. 3253 points from Benson. Last year was 3230 so about the same. Weather and equipment issues happened and were dealt with as usual. I wouldn't think we needed a sump pump on the taxiway, but we did. Backups and contingency plans aside it was a great time and you should join us next year. Thanks to all of you who helped out and participated.

We have continued the Field Day Award program and this year's recipients definitely deserve to be recognized for their continued involvement. This month I get to brag a little bit about John Warinsky K9NJ. John is a Heavy Metal guy quite literally, he's a metallurgist by trade. So when he isn't "pounding the brass" on CW he could be working with other metals and alloys. In addition to his knowledge and mentorship running the CW operation during Field Day he provides radio and antenna equipment used in the GOTA tent. He recruits and schedules so that CW is always our biggest contributing station on points earned. He's the kind of guy who makes me want to learn CW. Thanks John, congratulations on the award and I hope to see you soon at the Mining Club breakfast. (Denny's on Century Ave near 3M first Saturday 8AM if anyone else wants to join us)

If you know anyone who would like to study for or refresh their knowledge for the Technician License we are planning a study group next month. kdØsqj@arri.net to sign up. 73 Pete kdØsqj.

Below Left: John Warninsky K9NJ taking a break from CW Ops.
Below Right: The sump pump trying to stay ahead of the puddle.
Both photos by Dawn Holmberg WXØZ



Field Day Photos

by Dawn Holmberg WXØZ



The CW Antenna being raised.
Dan Dionne K9ALV and Jim
Klassen KBØUAZ and others
look on.

Ralph Bierbaum NØAWN, Jim
Klassen, KBØUAZ and Dan
Meyer, NØKFB set up the fan
dipole for the digital station



Assembling the 3 element
VHF beam Antenna.



Ron Walkinshaw, K0RJW
assisting the VHF team set up
their three element beam.



Jim Klassen, KBØUAZ and Ron Walkinshaw, KØRJW Checking the operation of the equipment in the GOTA tent.

Dawn Holmberg WXØZ and Br Bob Walsh WCØJ working the digital station in the Scamp trailer.



Ron Walkinshaw, KØRJW helping a visitor make a few contacts at the GOTA station.



Jim Klassen, KBØUAZ working the CW Station.

Dan Dionne, K9ALV and Tom Burke, KD9WAR working in the sideband station.



Jack Bravis, WØEKS working the CW station late Saturday evening.



Erik Westgard, NY9D busy working the VHF station.

Dale Maroushek, NØPEY serving lunch for hungry field day participants.



Dan Meyer, N0KFB, Dale Maroushek, NØPEY, Mark Linafelter NL7AS and another helper loading a generator on Sunday.

A Few Audio Tips by Scott NØAR

One of my mentors was a MaBell engineer that worked on speech transmission standards. I remember a lot of what he tried to drill into me but as a young kid most went in one ear and out the other (no pun intended). Back then it was important for the phone system to only use necessary bandwidth for phone calls. Bandwidth costs money. So the 300 Hz to 3400 Hz bandwidth was the chosen range. Outside that range any voice energy isn't necessary to get the conversation understood.

Our HF radios used to rely on crystal filters to set the reception/transmission bandwidth. You couldn't adjust them but some radios had the ability to shift the filter around the center frequency. This allowed you to boost the high or low end. Most modern HF radios have adjustable bandwidth and allow you to select the low and high pass frequency in the filter.

Depending on the mode and band conditions the best settings will change from day to day and band to band. A good example is if you are working a SSB contest you might only want a 2 kHz bandwidth and that might start at 400 Hz. Cutting down the bandwidth results in less adjacent station interference and enhances the portion of speech we need to communicate. No it doesn't sound like a good quality signal but it gets the information through. The same goes for CW with the exception you should have your preferred received tone be in the center of the band pass. Many rigs have adjustable sidetone that match the center frequency. If your sidetone matches the tone of the signal you are receiving then you both are on the same frequency. Many rigs have an automatic tuning button to "zero beat" the other station. Many contesters use extremely narrow filters and if you call them even slightly off their frequency they just don't hear you. So learning to use a wider, say 500 Hz filter, and letting your brain sort out the adjacent stations will allow you to pick up those off frequency callers and work them.

One other fancy feature that often goes unused on HF radios is the audio equalizer. This adjusts the audio bandpass response in very defined ranges. Some radios have a parametric equalizer type adjustment. Even with a good IF filter setting the sound within the filter may not be optimized for what you want to hear. Adjusting the highs and lows can make for an improved quality of the signal. It might mean less thunderstorm noise or better voice characteristics. Those of us with old ears might need a bit of help to level out that bandpass response and this is the way to do it.

The last link is the speaker we use. I have yet to hear a good sounding speaker in a rig. I recommend you use a good quality external speaker and not be afraid to use the equalizer to make it sound better to your ears. You don't necessary want a big old bookshelf speaker but a smaller 4" speaker pointed at you is going to give you something to work with.

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Digital mode operators will gain the same benefits of knowing your signal is as flat and clean as it can be before you feed it to the decoder. Having a quality audio system also

allows you to hear down to the noise floor. Often you might hear hum, popping or other artifacts that have gone overlooked. These can point to the need for grounding and bonding of all your radio gear to each other. The same artifacts can work their way into the transmit chain and you can be sending them out unknowingly.

VE Report

by Steve Scott WA7HPK

Another great pool of 7 candidates showed up for our July 12th VE exam session at the test site at Galilee Lutheran church in Roseville. Francesca Bernardi KFØUVV, Brian Castle KFØUUE and Anthony Dargai KFØUUD, all of Minneapolis successfully gained their Technician tickets. Dean Martin KØWRT (Burnsville) passed both his Technician and General class exams. Dean joined us for our monthly breakfast in July.

David Grilli KFØIWU (Roseville) upgraded to General and Scott Benson KFØUNS (Burnsville), who had passed his Technician with us in June, accomplished the upgrades to General and Extra, achieving perfect scores in each! The final candidate missed hitting the Technician threshold but opted to study a bit more and come back soon.

Again, please visit the above candidate's QRZ pages and sign their weblogs with a congratulatory note. A good portion of our new licensees appear to be taking advantage of the QRZ JumpStart program. That offer affords them a pretty good deal on the QRZ Explorer 1 VHF/UHF HT and discounted accessories.

VE's assisting at the July session were Ralph Bierbaum NØAWN; Jeff Gubash KAØUPA; Scott Holisky NØAR; Terry Londroche NØGOI; Brian McInery NØBM; Gregory Merth KCØRET; Ray Speltz NDØG; Curtiss Trout ACØCT; and myself WA7HPK. This was also the same day as our Magic Repeater Tailgater event so the parking lot was filled with electronic offerings being sold, swapped or bought. I again bought some raffle tickets and won a couple sets of precision screwdrivers and a \$50 ARRL gift certificate.

We did not test in August, being dark that month but we do have at least 3 candidates signed up already for our September exam session on the 6th, again at the church. For October, we've been asked again to provide VE exams at the North Star Radio Convention at the Hennepin Technical College in Brooklyn Park on the 11th.

Steve Scott
WA7HPK - pipemajor2@gmail.com

Public Service Events

By George Power KØGCP

If you have never participated in a public service event, please consider doing so. It helps to keep the participants and public safe, and it allows you to practice your amateur radio skills, have a lot of fun, and meet many like-minded people. Stay tuned!

DATES	Event
2025-09-05/6	Superior Fall Trail Race 100mi,50mi, 26.2mi https://www.superiorfalltrailrace.com/
2025-09-14	River Falls Autumn Trek https://www.rivervalleytrails.org/autumn-trek/
2025-09-14	BikeMN Twin Cities Ride https://www.bikemn.org/all-events/tcibt/
2025-10-05	Twin City Marathon https://tinyurl.com/tcsnan63
2025-10-11	Northstar Radio Convention https://northstarradio.org/
2025-10-11	Scenic Byway River Run Belle Plaine https://belleplainefestivals.org/event/scenic-byway-half-marathon/
2025-10-17/18	Mankato Marathon https://www.mankatomarathon.com/
2025-12-06	Nemadji Forest Rally Kerrick (<i>Date is tentative</i>) https://www.americanrallyassociation.org/nemadji-trail
2025-12-07	Arlington "Arlidazzle" https://www.arlidazzle.com/schedule/

Thank you very much for helping!

North Star Radio Convention



Join the North Star Radio Convention, the premier statewide event for Minnesota amateur radio enthusiasts. North Star is known for its expert speakers and workshops covering topics tailored to all levels of experience, ensuring there's something for everyone. Reconnect with old friends and make new ones among amateur radio enthusiasts from across the region.

For tickets and more information, visit <https://northstarradio.org/>

Saint Paul Radio Club Breakfast

Third Saturday of each month at 9:00 am



Denny's Restaurant
1664 University Ave. W.

One block West of Snelling Ave.
(Across from Ax Man)

Club Wearables

Many different items with the Saint Paul Radio Club logo may be ordered at: <https://www.hamthreads.com/>
Dale recently spoke with the owner Diane and she assured him they still have our logo in three sizes, hat/chest/back, so you can have it positioned on your favorite item wherever you like. You can shop on line, pick the clothing piece you want, list the logo, name and callsign then pay. Sit back and it comes to your house. If you have questions, give them a call 817-602-1834.

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SPRC Calendar

Fri Sept 5 6PM SPRC Board meeting, Commons Meeting Room,
John R. Albers Center, Cretin-Derham Hall High School. *

Fri Sept 5 7PM Socializing followed by 7:30 PM SPRC Membership meeting.
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.

Sat Sept 6 9:30 AM Amateur Radio testing administered by the Saint Paul Radio Club
volunteer examiner team. Galilee Lutheran Church, 145 N McCarrons Blvd, Roseville,
MN. Reservations required; Contact Steve Scott WA7HPK, Telephone 651-503-7441 or
e-mail pipemajor2@gmail.com

Sat Sept 20 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.

Fri Oct 3 6PM SPRC Board meeting, Commons Meeting Room,
John R. Albers Center, Cretin-Derham Hall High School. *

Fri Oct 3 7PM Socializing followed by 7:30 PM SPRC Membership meeting.
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.

Sat Oct 4 9:30 AM Amateur Radio testing administered by the Saint Paul Radio Club
volunteer examiner team. Galilee Lutheran Church, 145 N McCarrons Blvd, Roseville,
MN. Reservations required; Contact Steve Scott WA7HPK, Telephone 651-503-7441 or
e-mail pipemajor2@gmail.com

Sat Oct 18 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.

* Depending on business to be considered, Board Meetings are sometimes held electronically.
Check with a Board member beforehand to confirm a meeting.

Hamfest Calendar

- Sat Sep 13 8AM Lake Elmo tailgate hamfest, 8247 27th St. N., Lake Elmo, MN 55042
<https://www.arrl.org/hamfests/lake-elmo-tailgate-hamfest>
- Sat Sep 13 9AM Isanti hamfest, 1866 301st Ave NE, Isanti, MN 55040
<https://isantiradio.org/Hamfest-info/>
- Sat Sep 13 9AM NPRRC hamfest, 825 3rd Ave, Brewster, MN 56119
<https://www.facebook.com/groups/NPRRC>
- Sat Sep 20 8AM TCFMC Last Chance tailgate swap fest
1705 Forestview Lane N., Plymouth, MN 55441
<https://tcfmc.org/>
- Sat Sep 20 9AM Chippewa Valley ARC hamfest
Bloomer Fairgrounds, 1609 9th Ave, Bloomer, WI 54724
<https://w9cva.org/hamfest>
- Sat Sep 27 9AM Carlton County RACES Fallfest
4 Seasons Sports Facility, 90 Chestnut Ave, Carlton, MN
https://thearac.org/2025/Fallfest_Flier.pdf
- Sat Sep 27 9AM Dakota Division Convention and RRRRA hamfest
Moorhead Armory, 1002 15th Ave N, Moorhead, MN
<https://rrra.org/cal/2025/09/27/2025-rrra-hamfest-arrrl-dakota-division-convention/>
- Sat Oct 11 8AM North Star Radio Convention
Hennepin Technical College, 9000 Brooklyn Blvd, Brooklyn Park, MN
<https://northstarradio.org/>

Zoom Meeting Information

SPRC Monthly Meeting

Time: 1st Friday of the month, 6:00 PM Central Time (US and Canada)

To Join the Zoom Meeting use **Meeting ID: 651 842 1000** and **Passcode: 6512764838**

Or this link:

<https://us02web.zoom.us/j/6518421000?pwd=djluU3dha0FBN1hERIRoUVA0RVNUQT09>

Or

<https://tinyurl.com/ys4efevx>

If you are not familiar with Zoom and would like to arrange to practice, text Don at (651) 276-4838 or email dk@donkelly.biz.

One-tap mobile:

+13462487799,,6518421000#,,,,*6512764838# US

+12532050468,,6518421000#,,,,*6512764838# US

For audio-only, dial 507-473-4847 and follow the prompts

To find other dial-in numbers, see: <https://us02web.zoom.us/j/kuWkJhGiz>